



SPECIALTY HAULAGE SOLUTIONS FOR CONSTRUCTION AND MINING

PRODUCT INFORMATION BULLETIN

MSC/MST8 CAT 621H/K HYDRAULIC OIL COOLER UPGRADE

Applicable to:

- The MSC/MST8 water tanks with CAT 621H/K tractors



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MSC/MST8 CAT 621H/K Hydraulic Oil Cooler Upgrade

A. DESCRIPTION

The MSC/MST8-CAT 621H/K (rigid and drop tank configurations) oil cooling circuits have sufficient cooling capacity for typical usage in the water truck application. Mega offers an oil cooler kit (part number 054747) that provides additional cooling capacity for extended duty cycles when operating in extreme ambient temperatures.

If any information or instructions in this document are unclear, contact the MEGA Corp Product Support Group immediately with the water tank serial number at:

US toll free: 1-800-345-8889
Direct: 1-505-345-2661

Or visit our website at www.megacorpinc.com for more detailed contact information.

B. Warning, Caution And Notes

The following definitions are found throughout the manual and apply as follows:



WARNING

Operating procedures and techniques, which could result in personal injury and/or loss of life if not carefully followed.

CAUTION

Operating procedures and techniques, which could result in damage to equipment if not carefully followed.

NOTE

Operating procedures and techniques that are considered essential to emphasize.

Use Of Shall, Will, Should And May

Shall and **Will** – Used when application of a procedure is mandatory.

Should – Used when application of a procedure is recommended.

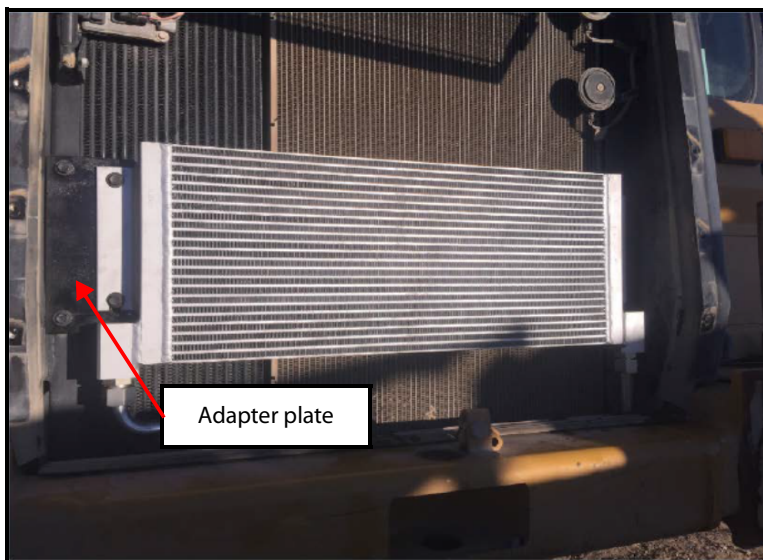
May – Used to indicate an acceptable or suggested means of accomplishment.

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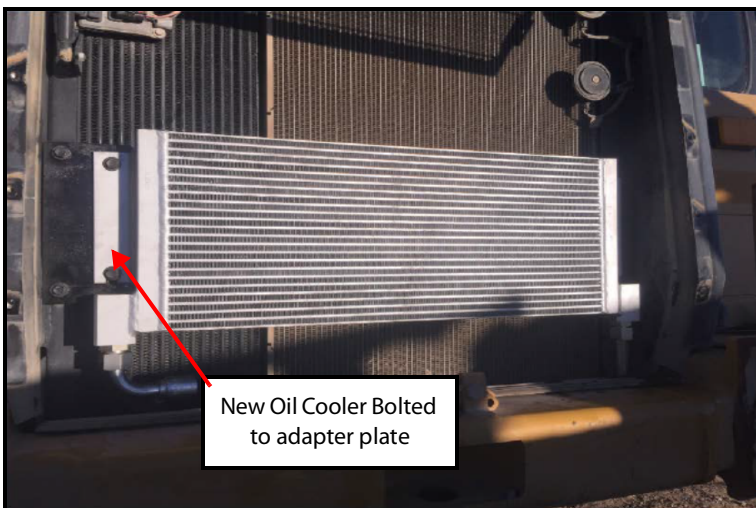
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C. KIT INSTALLATION PROCEDURES

1. Ensure engine is off and safe for service.
2. Lower front belly pan of tractor.
3. Remove tractor radiator protector screen.
4. Disconnect both tubes from oil cooler.
5. Remove original oil cooler and adapter plates.
6. Remove right side oil cooler tube assembly.
7. Locate new adapter plates, oil cooler and hardware in the kit.
8. Install new oil cooler plates in original mounting holes.



9. Install new oil cooler to new adapter plates with supplied fasteners and spacers.



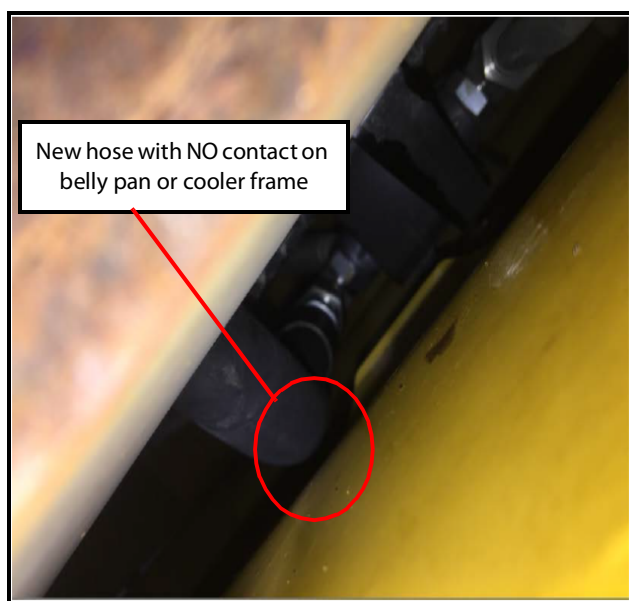
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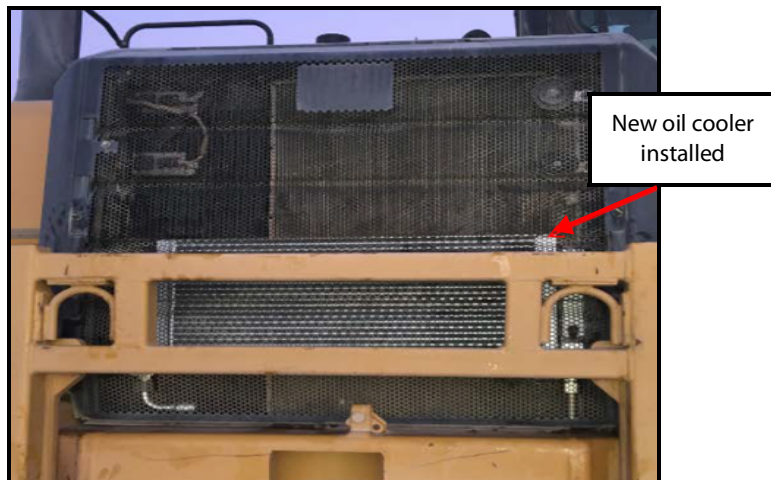
10. Install adapter fittings with new O-rings in oil cooler ports.
11. Install and tighten left oil cooler tube to oil cooler
12. Route and secure new hydraulic hose from oil cooler to manifold block located under radiator assembly.

CAUTION

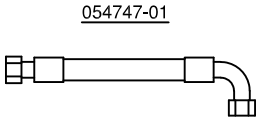
Ensure hose is routed to not interfere with or rub on belly pan or frame when belly pan is reattached. Interfering, rubbing or both could result in damage to the hose and oil cooler functioning properly.



13. Start engine and operate hydraulics. Ensure new oil cooler and hose connections are not leaking, repair as required.
14. Shut down engine and reinstall radiator protector screen and belly pan.



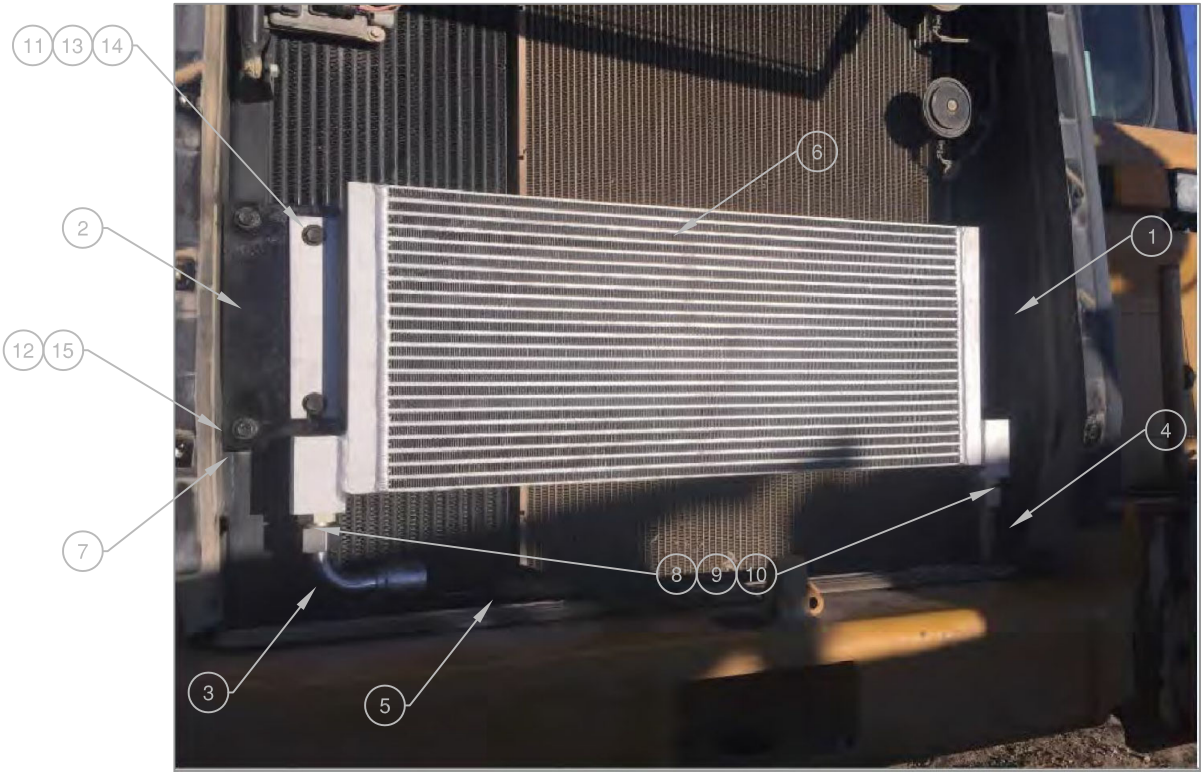
15. Inspect and adjust hydraulic oil level as required.




ITEM	Part No.	PART NAME	QTY	REF No.	WT.
1	308450	HOSE END, -16 ORFS 90°	1		STK
2	308313	HOSE END, -16 ORFS 0°	1		STK
3	H53040-08	HOSE, HYDRAULIC -16 X 25.00"	1		STK

BILL OF MATERIAL

No.	Part No.	PART NAME	QTY	REF No.	WT.
1	054741	CAT621 COOLER ADAPTER PLATE (RIGHT)	1		STK
2	054742	CAT621 COOLER ADAPTER PLATE (LEFT)	1		STK
3	054747-01	HOSE ASM	1		STK
4	309494	CORE ASSEMBLY, OIL COOLER CAT630K	1		STK
5	309495	SPACER, 12MM	4		STK
6	354728	O-RING	2		SPLY
7	355794	O-RING	2		STK
8	355965	ADAPTER, -16, STRAIGHT	2		STK
9	355477	M10 X 1.5 X 35MM	4		SPLY
10	306147	M10 X 1.5 X 70MM	4		SPLY
11	307797	WASHER, HARD, 3MM	8		SPLY
12	355254	NUT, M10 X 1.5	4		SPLY
13	309496	WASHER, HARD, 10MM	4		STK



GENERAL NOTES:
ITEM (7) SPACER, 12MM TO BE INSTALLED
BETWEEN ADAPTER PLATES, (1) AND (2), AND
COOLER PACK FRAME AT EACH CORNER.

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	TOLERANCE: UNLESS OTHERWISE SPECIFIED					
	3 PLACES ± 0.010		2 PLACES ± 0.03		ANGULAR ± 1°	
	NAME OF JOB: CAT621/631 COOLER ADAPTER					
DRAWING TITLE: COOLER ASSEMBLY						
SCALE: NTD		DATE: 10-31-19		DWG. No.: 054747		
DRAWN BY: KDS		SHEET 1 OF 1				